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**Short Course T7: Lateral Rotordynamics of Petrochemical Equipment –
Review, Examples, and Problems**



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This course is aimed at machinery and project engineers and technicians who need a basic understanding of critical speeds, response to unbalance, and stability of rotating machinery. The course is intended for the layman's approach to rotordynamics and its application to Turbomachinery. The focus of the course will be the rotordynamic behavior of petrochemical gas handling rotating equipment; centrifugal/axial compressors and steam/gas turbines. However, the concepts presented can be applied to virtually any class of rotating equipment.

- I. Introduction
- II. Lateral Analysis
- III. Stability Analysis
- IV. Case Histories of Bearing-Induced and Low-Frequency Instabilities